



Unit 12 Barratt Trading Estate, Denmore Road, Bridge of Don, Aberdeen AB23 8JW

## **Single Pack Off User Manual**

**This Manual Covers the Following Part Numbers:**

**148-5337-HV0**

This is a certified safety critical product and modifications or changes not authorised by Phuel Oil Tools may compromise the Safety, Functionality and Certification of the assembly.

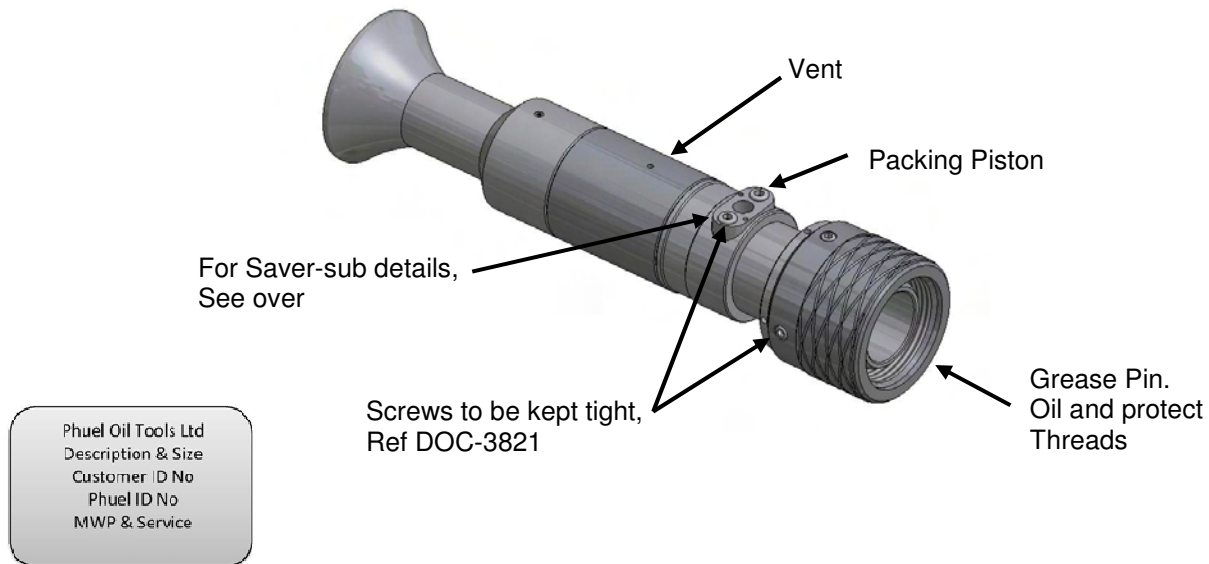
### **Safety Considerations:**

All pressure equipment has a particular pressure rating and care must be taken to ensure that no item is used in a situation that may cause its working pressure to be exceeded.

This equipment is heavy and should not be lifted without lifting aids

OPS-5337 REV A

## Recommended Operation and Maintenance for Single Pack Off



Typical Identification Tag

### Pre Job

- Check that the certification and scheduled maintenance is up to date.
- Examine the assembly, to make sure that it is good operating order, and seal areas and threads are not damaged.

### Post Job

- After each job, the assembly should be thoroughly cleaned and redressed if required.
- The assembly should be protected against the effects of corrosion and damage.

### Annually

- Inspect the condition of sealing surfaces and surface coatings, and threads, repair/replace as necessary.
- Re-coat threads and sealing surfaces if necessary. Contact Phuel if in doubt.
- Pressure Test to 300 to 500 psi and to maximum working pressure.
- Inspect paintwork and repair where necessary.

### Five Yearly

- Recertification by Phuel Oil Tools in accordance with DNV-RP-E101

### Pressure Test

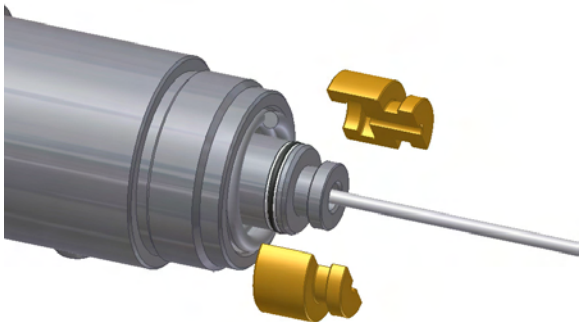
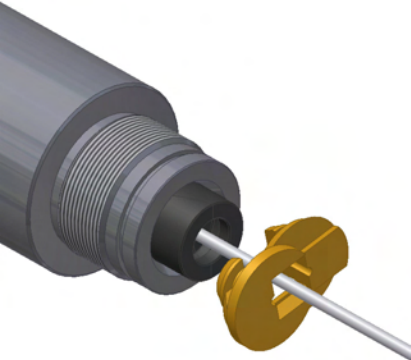
- Fit the appropriate test cap and use Test Plug 900-5178-HV0
- Fill with test fluid, bleeding off any air in the system
- Apply pressure between 300 to 500 psi and hold for a minimum of 10 minutes
- Increase pressure to Maximum Working Pressure, allow to stabilise and hold for 15 minutes with no visible leaks.
- Bleed off pressure, drain test fluid, and remove test caps and dry
- Apply coating of de-watering solution to protect the bore and threads, and fit thread protectors

## Procedure for changing packing

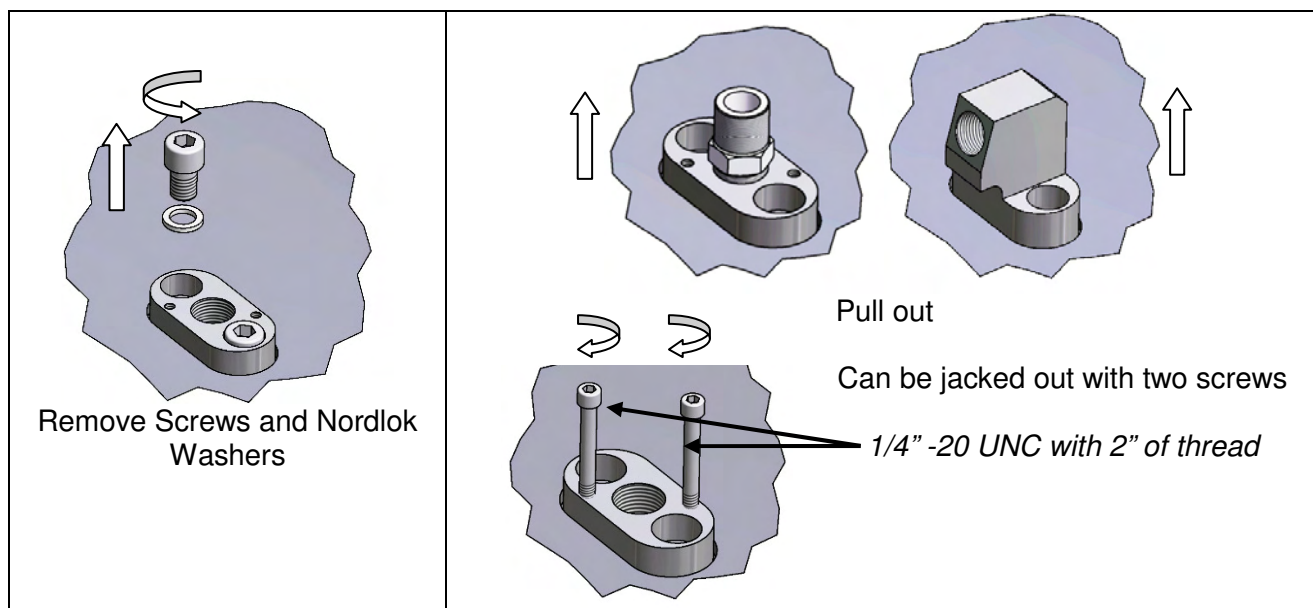
This can be achieved with the wire still in the bore.



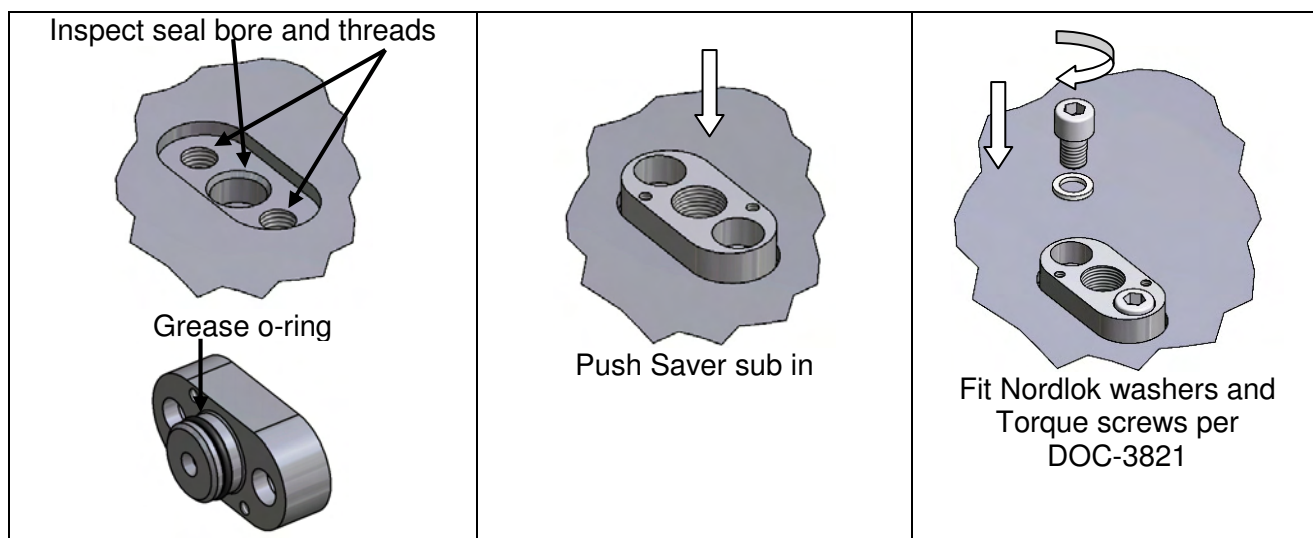
**Ensure well bore is depressurised before commencing**

|                                                                                     |                                                                                                                                     |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
|    |                                                   |
| <p>Fit the two halves of the Packing Gland over the end of the Piston</p>           | <p>Fit the two halves of the Packing over the end of the Packing Gland</p>                                                          |
|  |                                                 |
| <p>Slide the Seal Housing over the packing and make up the thread fully</p>         | <p>Pump out the piston to expose the end of the packing then assemble the Interlocking Rings over the wire and into the packing</p> |

## Saver Sub Removal



## Saver Sub Refitting



## Alternative Saver Subs

Other saver subs are available, contact Phuel Oil Tools for details.







## User Manual - Bill of Material and Spares

### Bill of Material – 148-5337-HV0

| Item | Part Number  | Description                                 | Qty |
|------|--------------|---------------------------------------------|-----|
| 1    | 148-5382-480 | PACK OFF BOTTOM SUB 4-3/4-4                 | 1   |
| 2    | 300-5411-480 | LW SPLIT COLLAR 4-3/4-4                     | 1   |
| 3    | 169-4217-480 | SPLIT RING 4-3/4-4 10K                      | 1   |
| 4    | 145-2971-480 | SEAL HOUSING                                | 1   |
| 5    | 148-5383-480 | FUNNEL TOP CAP                              | 1   |
| 6    | 148-5418-480 | SINGLE PACK OFF PISTON                      | 1   |
| 7    | 145-2176-480 | SAVER SUB PORT                              | 1   |
| 8    | 145-2177-STL | PISTON SPRING                               | 1   |
| 9    | 145-2970-W43 | PACKING GLAND 7/16                          | 1   |
| 10   | 145-2969-PU8 | SPLIT PACKING                               | 2   |
| 11   | 145-3236-W21 | INTERLOCKING SEAT - LEFT                    | 1   |
| 12   | 145-3237-W21 | INTERLOCKING SEAT - RIGHT                   | 1   |
| 13   | 147-2365-W18 | WIRE GUIDE - 3/16                           | 1   |
| 14   | 801-0119-V90 | O-Ring - B.S Size 119                       | 1   |
| 15   | 801-0340-V90 | O-Ring - B.S Size 340                       | 1   |
| 16   | 802-2977-H80 | PISTON T-SEAL 2.00                          | 3   |
| 17   | 802-2183-H80 | PISTON T-SEAL 3.25                          | 1   |
| 18   | SDU-0505-HTS | Set Screw Dog Point Size 1/4 Length 0.75 in | 2   |
| 19   | SHC-0543-3A4 | Soc Hd Cap Size 3/8 Length 0.625 in         | 4   |
| 20   | SHC-0583-3A4 | Soc Hd Cap 1/2 UNC Length 3/4 in            | 2   |
| 21   | WNL-0540-316 | Nord Lock Washer Size 3/8                   | 4   |
| 22   | WNL-0580-316 | WASHER NORDLOCK (M12)                       | 2   |

### Spares

Use only spares supplied or approved by Phuel Oil Tools Ltd. O-Rings conform to industry standards and may be substituted with those from other suppliers — **at the sole risk of the user.**

Individual items may be ordered as required using the part number specified

Elastomeric spares are supplied in Viton and HNBR material as standard. Many other materials are available please specify when ordering.

It is recommended that sufficient quantities of the following spares be maintained to ensure that the equipment is always available when required.

#### Redress kit RDK-5337-HV0

| Item | Part Number  | Description           | Qty |
|------|--------------|-----------------------|-----|
| 14   | 801-0119-V90 | O-Ring - B.S Size 119 | 1   |
| 15   | 801-0340-V90 | O-Ring - B.S Size 340 | 1   |
| 16   | 802-2977-H80 | PISTON T-SEAL 2.00    | 3   |
| 17   | 802-2183-H80 | PISTON T-SEAL 3.25    | 1   |